

Notice of Allowability

Application No.

10/050,218

Examiner

Sanza L McClendon

Applicant(s)

DEDE ET AL.

Art Unit

1711

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/28/2003.
2. ☒ The allowed claim(s) is/are 1-13 and 15-45.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

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DETAILED ACTION

Response to Amendment

1. In response to the Amendment received on November 28, 2004, the examiner has carefully considered the amendments. The examiner acknowledges the cancellation of claim 14.

Response to Arguments

2. Applicant's arguments, see Amendment, filed November 28, 2003, with respect to claims 1-45 have been fully considered and are persuasive. The rejection of claim 1 under 35 USC 102(b) as being anticipated by Dower et al (6,151,433 and 6,085,004) has been withdrawn. While Dower et al teaches using electron donors having an oxidation potential greater than 0 and less than that of 1,4-dimethoxybenzene, Dower et al fails to teach using electron donors with said properties that are polycyclic aromatic compounds or N-alkyl carbazole. The rejection of claims 1-4, 7-13, 15-17, 22-24, and 45 as being anticipated by Cole et al (6,331,080) under 35 USC 102(e) has been withdrawn. While Cole et al teaches using electron donors having an oxidation potential greater than 0 and less than that of 1,4-dimethoxybenzene, Cole et al fails to teach using electron donors with said properties that are polycyclic aromatic compounds or N-alkyl carbazole. The rejection of claim 1 under 35 USC 102(b) as being anticipated by Oxman et al (4,828,583 and 4,735,632) has been withdrawn. While Oxman et al teaches using electron donors having an oxidation potential greater than 0 and less than that of 1,4-dimethoxybenzene, Oxman et al fails to teach using electron donors with said properties that are polycyclic aromatic compounds or N-alkyl carbazole. The rejection of claims 1-13, 16-17, 22-24, 28-30, 32-35 and 45 as being anticipated by Oxman et al (6,187,836 B1) as evidenced by Dower et al (6,085,004) under 35 USC 102(e) has been withdrawn. While Oxman et al as evidenced by Dower et al teaches using electron donors having an oxidation potential greater than 0 and less than that of 1,4-dimethoxybenzene, Oxman et al and Dower et al fail to teach using electron donors with said properties that are polycyclic aromatic compounds or N-alkyl carbazole.

Allowable Subject Matter

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3. Claims 1-13 and 15-45 are allowed.

4. The following is an examiner's statement of reasons for allowance: The primary reasons for allowance is the electron donor having an oxidation potential greater than zero and less than that of 1,4-dimethoxybenzene and being selected from polycyclic aromatic compounds, such as those found in the instantly claimed invention or N-alkyl carbazole compounds. While the prior art teaches ternary photoinitiator systems for cationic polymerizable compositions, such as dental compositions, comprising onium salts, such as iodonium salts, visible light sensitizers, and electron donor compounds having oxidation potentials greater than zero and less than that of dimethoxybenzene, the prior art fails to teach electron donors that are polycyclic aromatic compounds or N-alkyl carbazole compounds having oxidation potentials greater than zero and less than that of dimethoxybenzene.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanza L McClendon whose telephone number is (571) 272-1074. The examiner can normally be reached on Monday through Friday 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Sanza L McClendon

Examiner

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A handwritten signature in black ink, appearing to read 'J. Seidleck', with a stylized flourish at the end.

James J. Seidleck
Supervisory Patent Examiner
Technology Center 1700